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Performance of Windows NT porting environments

Blanton, J. Aicklen, G.H.

Alcatel Corp. Res. Center, USA

This paper appears in: Application-Specific Systems and Software Engineering Technology, 1999. ASSET '99. Proceedings. 1999 IEEE Symposium on

Meeting Date: 03/24/1999 - 03/27/1999

Publication Date: 24-27 March 1999

Location: Richardson, TX USA

On page(s): 269 - 273

Reference Cited: 10

Number of Pages: xi+296

Inspec Accession Number: 6240712

Abstract:

A cost effective method for developing complex software systems while managing reliability issues is to port existing applications to new platforms. A number of products provide development and operational environments to facilitate the porting of UNIX applications to Windows NT. The goal of these products is to minimize the amount of code rewriting for the ported application. To this end these products allow the recompilation of the UNIX code in a UNIX-like development environment on the Windows NT platform. Finally, they provide the necessary UNIX-like system calls to allow execution of the ported applications on Windows NT. We have conducted tests to measure the performance of some standard UNIX applications when running in conjunction with the different UNIX compatibility layers. For comparison we executed the applications on the Win32 API, and performed tests with the applications running on Linux.

Index Terms:

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2 **Software tools [technology analysis and forecast]**

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3 **XAnimate: an educational tool for robot graphical simulation**

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